

OCS Environmental, Inc.

U.S. Steel Gary Works Emissions Inspection Summary

Date:	161	12	_ _	
Start Time:	99:30	- AM) PM	
End Time:	1:29	AM)/ PM	
No. 2 Precarbon E	SP	•		
вор	Roof Mo	nitor	Gas Cle	aners
QBOP	Roof Mo	nitor '	Gas Cle	aners
Blast Furnace	4	6	. 8	14
Blast Furnace Top	4	6	8	14

The following events or operations contributed to significant emissions:

Time	· . Heat/Cast Number	Operation	Comments					
1019-1025	65	OPENED HOLE 10:19 Creating Excess BALIOSIONS	Total 500 Aug 20.83 Black (Shew) High 40.					



Page __/ of ______

Date: Source: Observation Start Ti Observation End Tir Observer's Position: Distance to source: Direction to source: Height of source: Vertical angle to source	ne:	0 0 14 8 1	6-1 9:3 9:5 1BF- 00 y	0 9 4 108 3		Ba Sky Win Am Rel We	ckgroy Col y Col nd Si nd Di blen blen t Bul	ons co ound: ndition peed: irection t Teme Hum b Ter	ns: on: op: op: np:	## S				
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OCS Environmental, Inc. Method 9 Source Layout Sketch

Date:/ Observer Name:	16112	•
Begin Time:	09:30	Time End:
No Sun Visible Times	Observation Point	W. F.
	Observed	20 50 50 50 70 To
	Position	1

Signature:

GW-Primary00151

Incident

Short Description:

Verif - No. 2 QBOP Roof Monitor

Type:

Reported By: Date Received: Air Requirement

Jim Alexander

3/19/2012 2:30 PM

Phone:

Status:

USS / Transtar

Employee?

Entered By:

Date Occurred:

Mayella Reyes

3/19/2012 2:56 AM

End Date: Offsite?

3/19/2012 2:59 PM

incident State:

Description:

Process Unit:

Ended

Q-BOP - North

Location:

No. 2QBOP Roof Monitor

(1) exceedance of the PM10 limit observed on No. 2QBOP Roof Monitor. Average opacity

reading of 35% from 14:56 - 14:59.

Environmental Contact:

Date Contacted:

Mardanna Soto

3/19/2012 4:30 PM

Method of Contact:

Direct Contact

Open

Yes

Nα

712,7255

CPAR Required?

CPAR#:

<u>Additional Information</u>

Media:

Air Yes Severity:

High Field

Has the initial report been

confirmed?

Were changes to the initial report No

required?

Reportable?

Yes - Agency Reportable

Qutside Impact? Deviation (Y/N):

Confirmation Method:

No Yes

Permit/Citation Ref/Plan

Associated:

Additional Comments:

This is the second PM-10 recorded. There was also another PM-10 and an internal due to the same issue. Total duration was 9 minutes.

The smoke was a result of turning the furnace down to charge side to walt for a ladle to be placed on the car. The scheduled tap time was 15:15 however due to the single crane operation (1 charge was down for PM'S) the melters are told to charge as soon as the metal is available. The Melter contacted the pit foreman and asked if he would have a ladle ready early which would allow him to charge. The plt foreman said he would, and the furnace was charged. The ladle was not available when the blow was complete so the furnace was turned down, as they were turning down slag came over the lip at 80 degrees and they stopped for fear of spilling material in the pit and causing smoke in the shop. However, per procedure, they had to stay on rotation nitrogen (13,000 scfm) to keep the tuyeres clear, but they were out from under the primary hood, and the PM 10 system was on Y because they had already charged scrap. As soon as the tadle was ready the furnace was brought over to tap and the smoke stopped.

Root Cause Determination:

The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladle crane operator leaving his crane while the ladle for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his crane immediately. He then moved the ladle for use by W furnace.

Associated with another incident? Yes

Associated Incident

Primary00150

Health and Safety? Incident Classification:

Observation

Category:

Number?

Initiating Event:

include in Rates and Counts?

Yes

Incident Detail

Incident Sub-Type:

Self Observed Event Internal Monitoring

Type of air requirement: Title V Permit

COMS or # CEMS:

Type of deviation/exceedance/regulation:

Cause:

The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladle crane operator leaving his crane while the ladle for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his

crane immediately. He then moved the ladle for use by W furnace.

Control & Counter Measure:

Refer to CA and PA sections.

<u>Materials</u>

No Data

Regulatory Notifications

No Data

Incident Investigation List

No Data

Incident Investigation Detail

No Data

Corrective Actions List

Corrective Action	Status
P- craneman contact	Completed

Corrective Actions Detail

Corrective Action: P- craneman contact

Author:

LASH, JAMES

Author Date:

3/19/2012

CAI#:

Notes:

Manager: Status:

11969 Completed

Priority:

Origin Cause:

Proposed Corrective Action:

Contact craneman to ensure that they do not block an in-process ladle when craneman

must deboard crane for any reason.

Proposed Completion Date:

Revised Completion Date:

3/21/2012

Site Response:

Assigned To:

Externally Controlled: Review on Completion: Actual Corrective Action:

Actual Completion Date:

Mar 20, 2012 12:00:00 AM

Verified By: Date Verified:

Root Cause

No Data

Reviewers/Approvers

No Data

Attachments

No Data

Witness Statements

No Data

<u>Tasks</u>

No Data

Lessons Learned

No Data

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Height of source: Vertical angle to sou	rce:		186		-	Wet	Bulb	Tem	dity% p: \ttach		んんろ Detac	hed	None
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GW-Primary00157

Incident

Short Description:

Verif - No. 2QBOP Roof Monitor

Type:

Air Requirement oçs

Reported By:

Date Received:

Entered By: .

Date Occurred:

Description:

3/23/2012 9:41 AM

Incident State: Ended

Process Unit: Q-BOP - North

Mardanna Soto

3/23/2012 10:00 AM

Mayella Reyes

Date Contacted:

Status:

Phone:

USS / Transfar Employee? No

End Date: Offsite?

3/23/2012 9:43 AM

No

Open

No. 2QBOP Roof Location: Monitor

(1) exceedance of the PM10 limit at No. 2QBOP Roof monitor. Average opacity reading of

24% from 9:41am - 9:43am.

3/23/2012 10:00 AM

Method of Contact: CPAR Required?

Confirmation Method:

Outside Impact?

Deviation (Y/N):

Text

High

Field

Νo

No

CPAR#:

Severity:

Additional Information

Environmental Contact:

Media: Has the Initial report been

confirmed?

Were changes to the initial report No

required?

Reportable?

Permit/Citation Ref/Plan -

Associated:

Additional Comments:

Root Cause Determination:

Associated with another incident? No

Heat was T42320, card#9812

Yes - Agency Reportable

Flameup apparently due to charging wet scrap into a cold vessel.

Associated incident Number?

Category:

Health and Safety?

Incident Classification:

Initiating Event:

Incident Detail

Include in Rates and Counts?

No

Air

Yes

Yes

Incident Sub-Type: Type of

deviation/exceedance/regulation:

Control & Counter Measure:

Self Observed Event

Internal Monitoring

Under Investigation Refer to CA section Type of air requirement:

COMS or # CEMS:

Title V Permit

11:49:18 AM

<u>Materials</u>

No Data

Regulatory Notifications

No Data

Incident Investigation List

No Data

Incident Investigation Detail

No Data

Corrective Actions List

Corrective Action	Status
P - use scrap E box when charging a cold furnace during wet conditions	Completed
c-manage e box at BOP	Completed

Corrective Actions Detail

Corrective Action: P - use scrap E box when charging a cold furnace during wet conditions

Author:

Author Date:

LASH, JAMES 3/23/2012

CAI #:

Notes:

Manager:

Status:

11969 Completed

3/26/2012

Priority:

Origin Cause:

Proposed Corrective Action:

Proposed Completion Date:

Revised Completion Date:

Site Response:

Assigned To:

Externally Controlled: Review on Completion:

Actual Corrective Action: Actual Completion Date:

Verified By:

Mar 26, 2012 12:00:00 AM

Date Verified:

Corrective Action: c-manage e box at BOP

Author:

NICKERSON, IAN

Author Date:

4/3/2012

CAI#: Notes:

Although a BOP activity, this action item is being tracked under the QBOP incident due to

its similar nature.

Manager:

12113

Status:

Completed

Priority:

Origin Cause:

Proposed Corrective Action:

Proposed Completion Date: Revised Completion Date:

Site Response:
Assigned To:
Externally Controlled:
Review on Completion:
Actual Corrective Action:
Actual Completion Date:

Verified By: Date Verified:

Root Cause

No Data

Reviewers/Approvers

No Data

Attachments

No Data

Witness Statements

No Data

<u>Tasks</u>

No Data

Lessons Learned

No Data

Ensure BOP emergency scrap box is kept dry with either a tarp, moving the box inside, or putting it under a shelter.

4/30/2012 6/8/2012

E Scrap box has been moved under roof.

May 30, 2012 12:00:00 AM

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RUN # 1 HEAT # 1



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OCS Environmental, Inc.

U.S. Steel Gary Works Emissions Inspection Summary

Date:	3 /	1.1	16-			
Start Time;	083	7	(AM)) PM		
End Time:	1012	-	(AM)) PM		
No. 2 Preca	rbon ESP					•
вор	R	oof Mo	nitor	Gas Clea	aners	
QBOP	R	oof Mo	nitor	Gas Clea	aners	
Blast Furnac	e	4	6	. 8	14	
Blast Furnac	е Тор	4	6	8	14	

The following events or operations contributed to significant emissions:

Time	Heat/Cast Number	Operation	Comments	
0141- 0443 hs	T 42320	Hot motal chauce	orange/brown total QSS Highest - 80	
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INCIDENTHOOIST

(PS)

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Date: Source: Observation Start Time: Observation End Time: Observer's Position: Oistance to source: Oirection to source: Height of source: /ertical angle to source:		Emissions color: Background: Sky Conditions: Wind Speed: Wind Direction: Ambient Temp: Relative Humidity%: Wet Bulb Temp: Plume Type: Attache	Start End As Noted Same Start O.C. Gray 4 62 88/1. N/A Detached	None
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OCS Environmental, Inc. Method 9 Source Layout Sketch

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